



# LEADED EMC COMPONENTS (cont.)

## COMMON MODE CHOKE COILS (DC LINE FILTERS)

### FOR OUTSIDE INTERFERENCE SUPPRESSION

Part Number	Inductance (mH)	DC Resistance (Ω) max	Rated Current (A) max
TLF9UB ■■ ■	3-20	1.5-6.5	0.18-0.4



CM05RA Type



CM08RA Type  
BU08RA Type



CM05RB Type



CM08RB Type



TLF9UB Type

Part Numbering System	
■	: Vertical winding
■	: Inductance (102 = 1mH)

### COMMON MODE CHOKE COILS (FOR DC AND SIGNAL LINES)

Part Number	No. of Lines	Impedance (Ω) Typ	DC Resistance (Ω) max	Rated Current (A) max
CM05RA06	2	700 (at 200MHz)	0.05	1.5
BU08RA11		1000 (at 250MHz)	0.04	3.4
BU08RA16		1200 (at 200MHz)	0.05	2.5
CM08RA17		2000 (at 80MHz)	0.04	2.4
CM08RA20		500 (at 200MHz)	0.02	5.5
CM12RA02		2000 (at 80MHz)	0.04	3.0
CM05RB01		700 (at 70MHz)	0.05	1.8
CM05RB02		1000 (at 10MHz)	0.08	1.0
CM05RB03		1400 (at 100MHz)	0.06	1.0
CM08RB01		2500 (at 30MHz)	0.04	2.0
CM08RB02	2000 (at 50MHz)	0.04	2.4	
CM08RB03	4	1000 (at 50MHz)	0.05	2.0
CM08RB04	2	2000 (at 70MHz)	0.04	3.0
CM08RB05		450 (at 100MHz)	0.02	4.0

## WOUND INDUCTORS (NORMAL MODE CHOKE COILS)

Part Number	Inductance (μH)	DC Resistance (Ω) max	Rated Current (A)
FL05R ■■ ■■	1.0-72	0.08	0.5



FL05RD Type



FL05R Type



FL06BT Type

Part Numbering System	
■	: RD = w/case
R	: no case
■	: Inductance
■	: Configuration

Part Number	Impedance (Ω) min	DC Resistance (Ω) max	Rated Current (A)
FL06BT04	1000 (at 150MHz)	0.05	3.0

## CAPACITIVE VARISTORS (MFC®)

### HIGH ENERGY RESISTANT TYPE

Part Number	Varistor Voltage (V)	Max Circuit Voltage		Capacitance (Ref) (pF)	Withstand Energy (J)	Dimensions In./.(mm)		Photo
		AC (Vrms)	DC (V)			W (max)	F	
MFC05D ■■ M	24-68	8-30	16-43	3000-8000	0.5	.315 (8.0)	.197±.039 (5.0±1.0)	Ⓐ
MFC08D ■■ M	15-120	6-56	9-80	7000-33000	1.0, 3.0	.433 (11.0)		
MFC07D	240, 430	145, 265	185, 335	1800-1000	1.0	.433 (11.0)		
MFCN08D ■■ K	200-610	125-360	160-470	1600-5100	4.0	.551 (14.0)		
MFC10D ■■ K				2700-9100	6.0	.551 (14.0)		
MFCN14D ■■ K				3900-12000	8.0	.670 (17.0)		



Ⓐ Radial Lead Type (W=width, F=lead spacing)



Ⓑ Axial Lead Type .280 max lg x .110 max dia (7.1 max lg x 2.8 max dia)



Ⓒ Surface Mount Type .232±0.008 lg x .093±0.004 dia (5.9±0.2 lg x 2.4±0.1 dia)

### FOR BYPASS CAPACITORS

Part Number	Capacitance (pF)	Tolerance	tan δ (max)	Rated Voltage (V)	Insulation Resistance (MΩ)	Withstand Capacitance	Dimensions In./.(mm)		Photo
							AC (Vrms)	DC (V)	
MFC06X ■■ M	10000 ~ 33000	±20%	5%	14-32	1.0 min	25kV (500pF) 0 Ω	.256 (6.5)	.197±.039 (5.0±1.0)	Ⓐ
MFC125AX ■■ ■		±20%					—	—	Ⓑ
MFC125LX ■■ ■		±30%					—	—	Ⓒ

### GENERAL PURPOSE

Part Number	Varistor Voltage	Tolerance	Max. Circuit Voltage		Capacitance (Ref) (pF)	Withstand Energy (J)	Dimensions In./.(mm)		Photo
			AC (Vrms)	DC (V)			W (max)	F	
MFCH04D ■	20-51V	±20% ±30% +30/-10%	8-24	14-32	3300-8200	0.05	.177 (4.5)	.197±.039 (5.0±1.0)	Ⓐ
MFCH06D ■					10000-33000	0.10	.256 (6.5)	.197±.039 (5.0±1.0)	Ⓐ
MFCH125A ■■ ■			6-24	9-32	—	—	0.05	—	—

Part Numbering System	
■	: Capacitance (103 = 10000pF)
■	: Varistor voltage (200 = 20V)
■	: Capacitance tolerance
■	: Varistor voltage tolerance